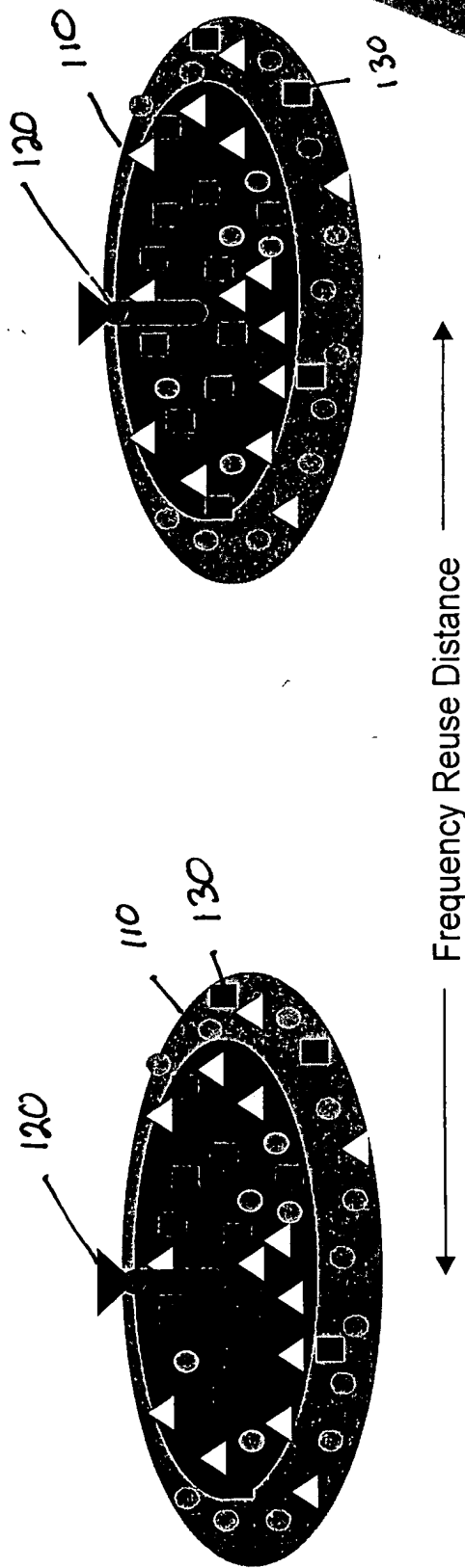


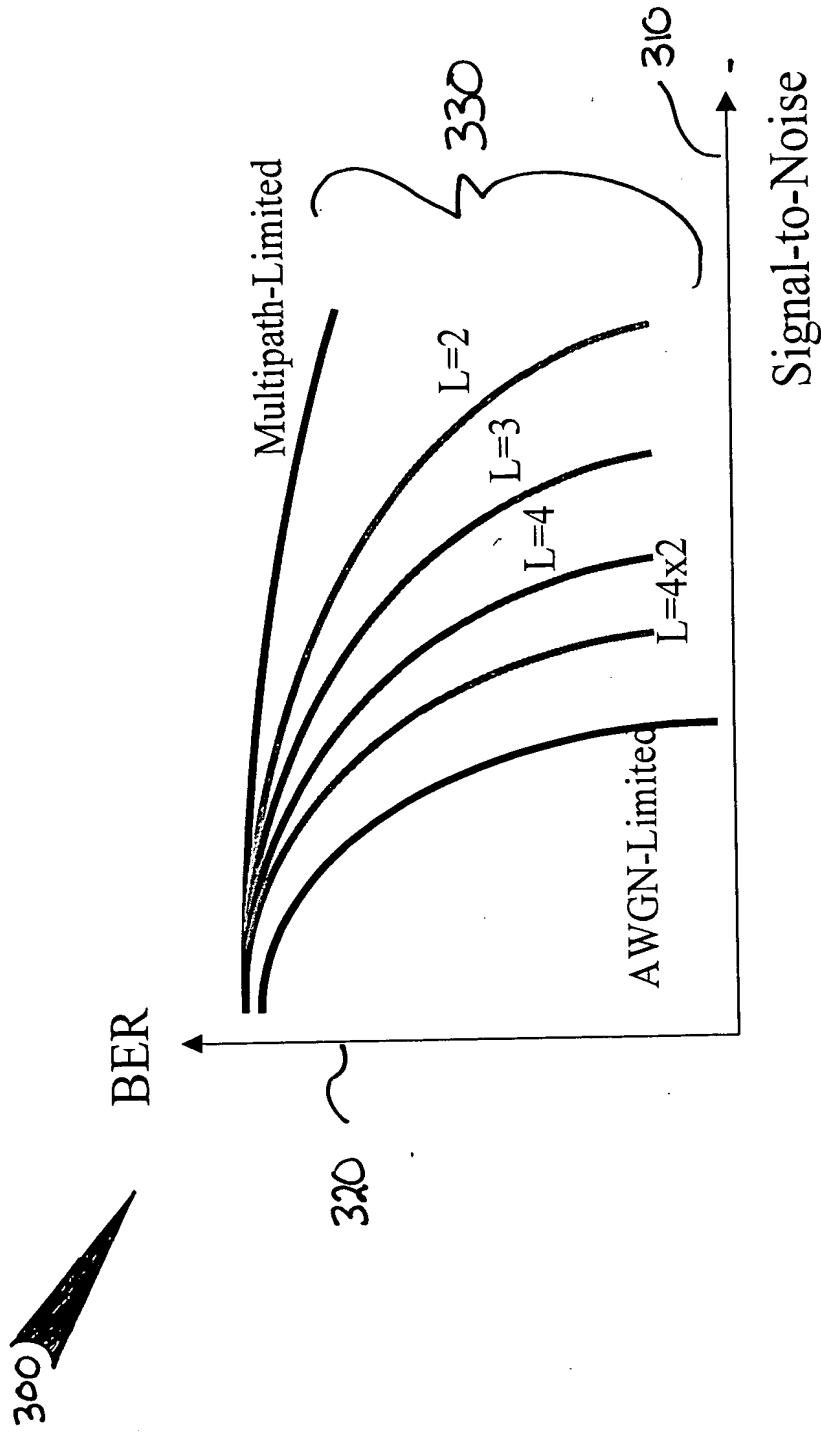
Current Architectures assume all subscribers connections are similar  
 Aperto' OptimaLink optimizes each subscriber connection (MAC & PHY)  
 The Benefit: Maximizing Robustness & Spectrum Utilization

# OptimalLink Frequency Reuse Advantage

Shorter Frequency Reuse Distance due to more interference-robust modulation at the cell boundary

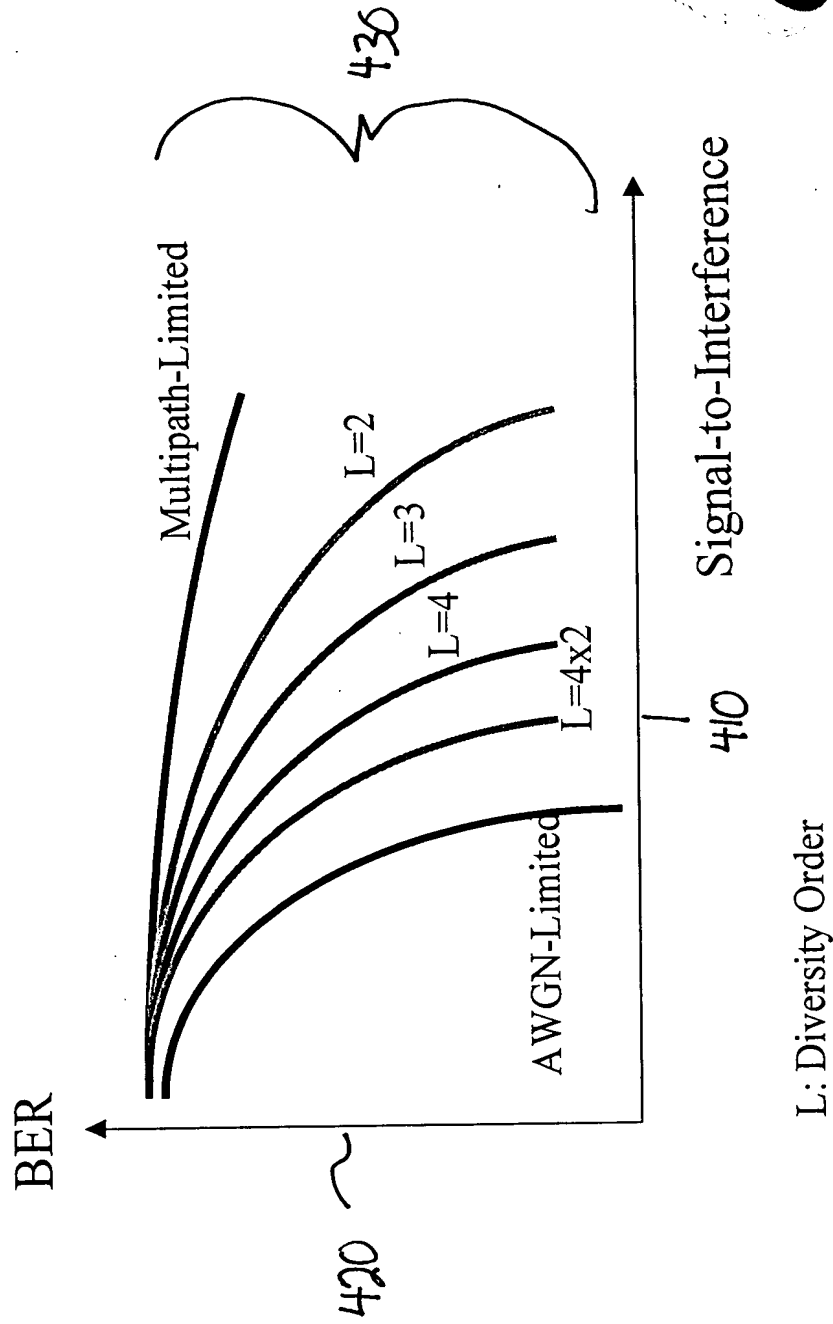


# OptimalLink Multipath-Robustness Advantage Adaptive Antenna Spatial & Polarization Diversity

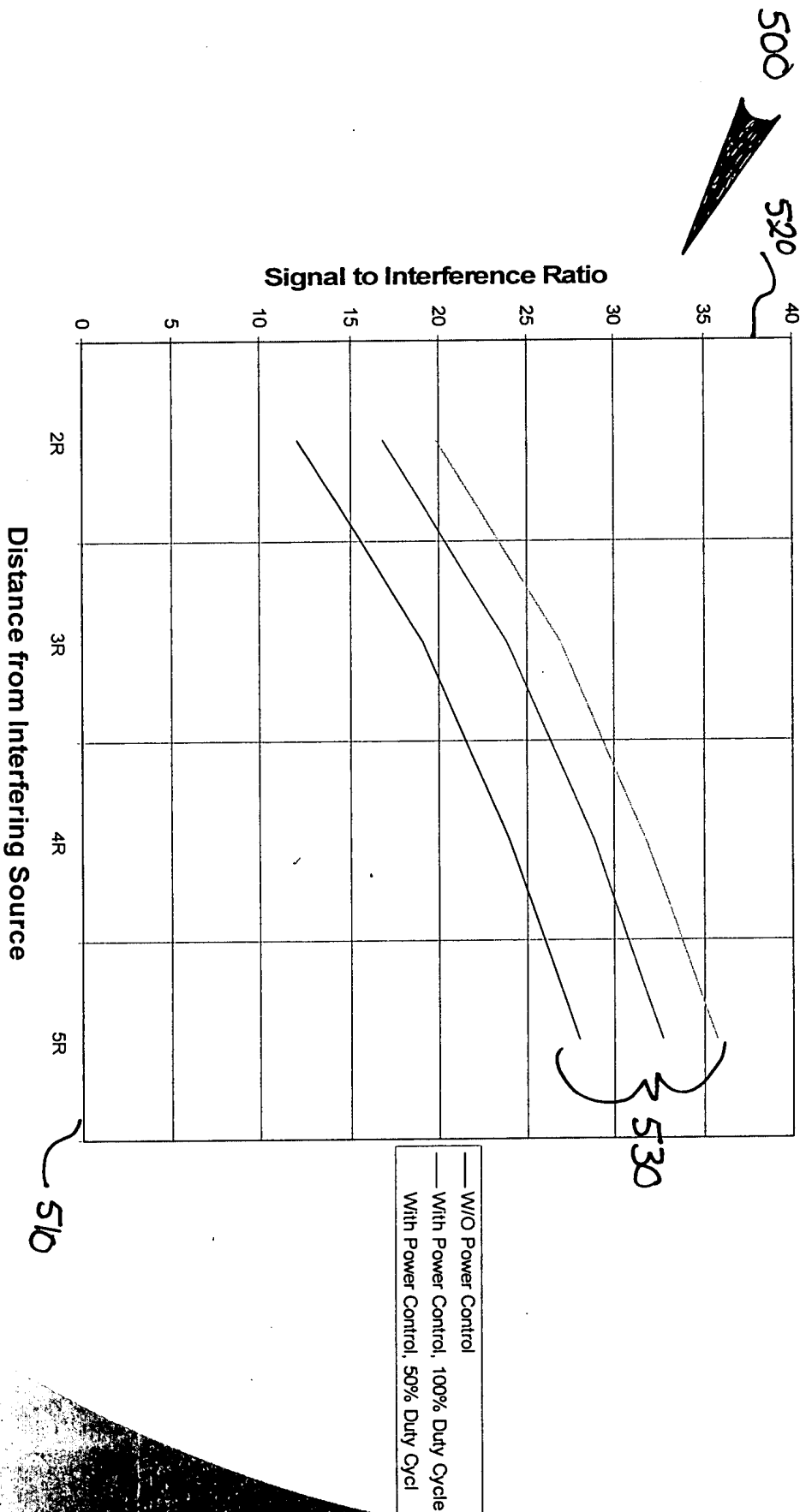


L: Diversity Order

# Optimal Link Interference-Robustness Advantage Adaptive Antenna Spatial & Polarization Diversity



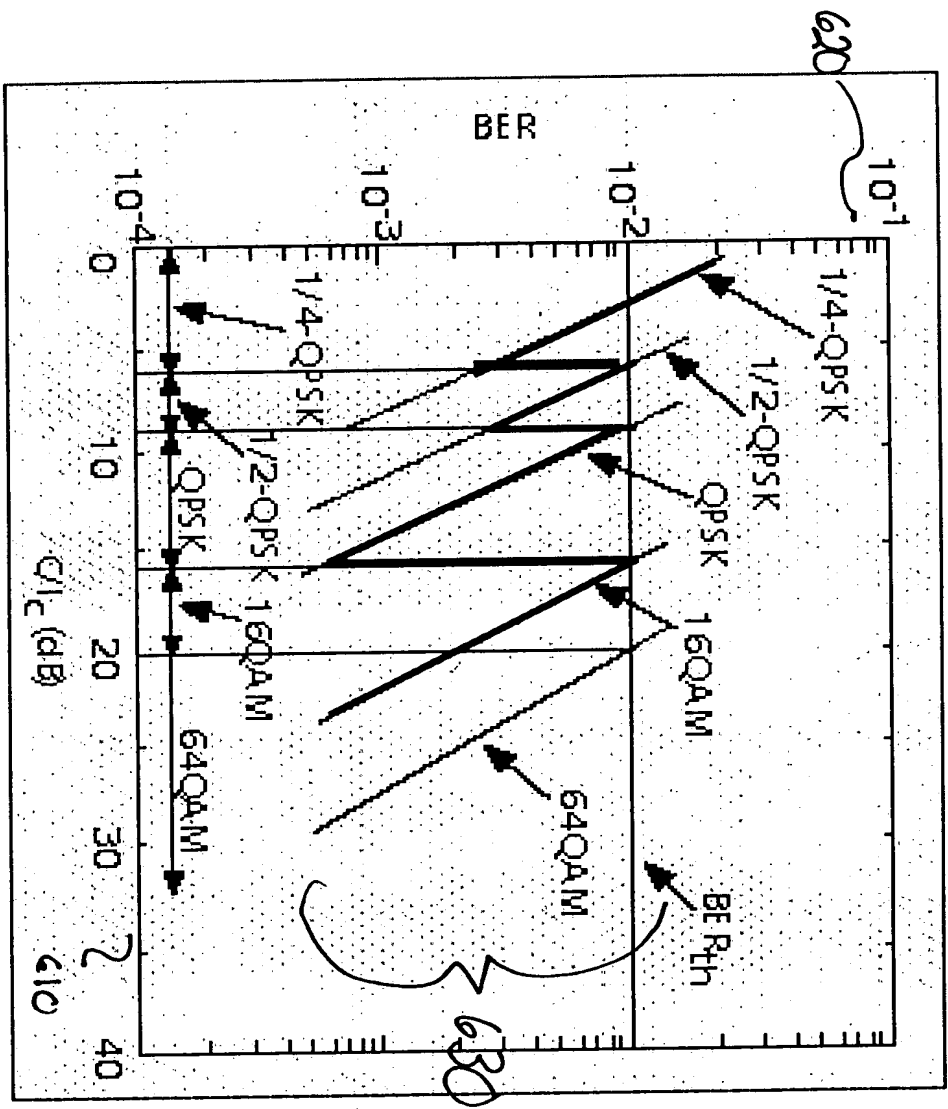
# Optimalink Power Control Advantage



09620826.072100

600

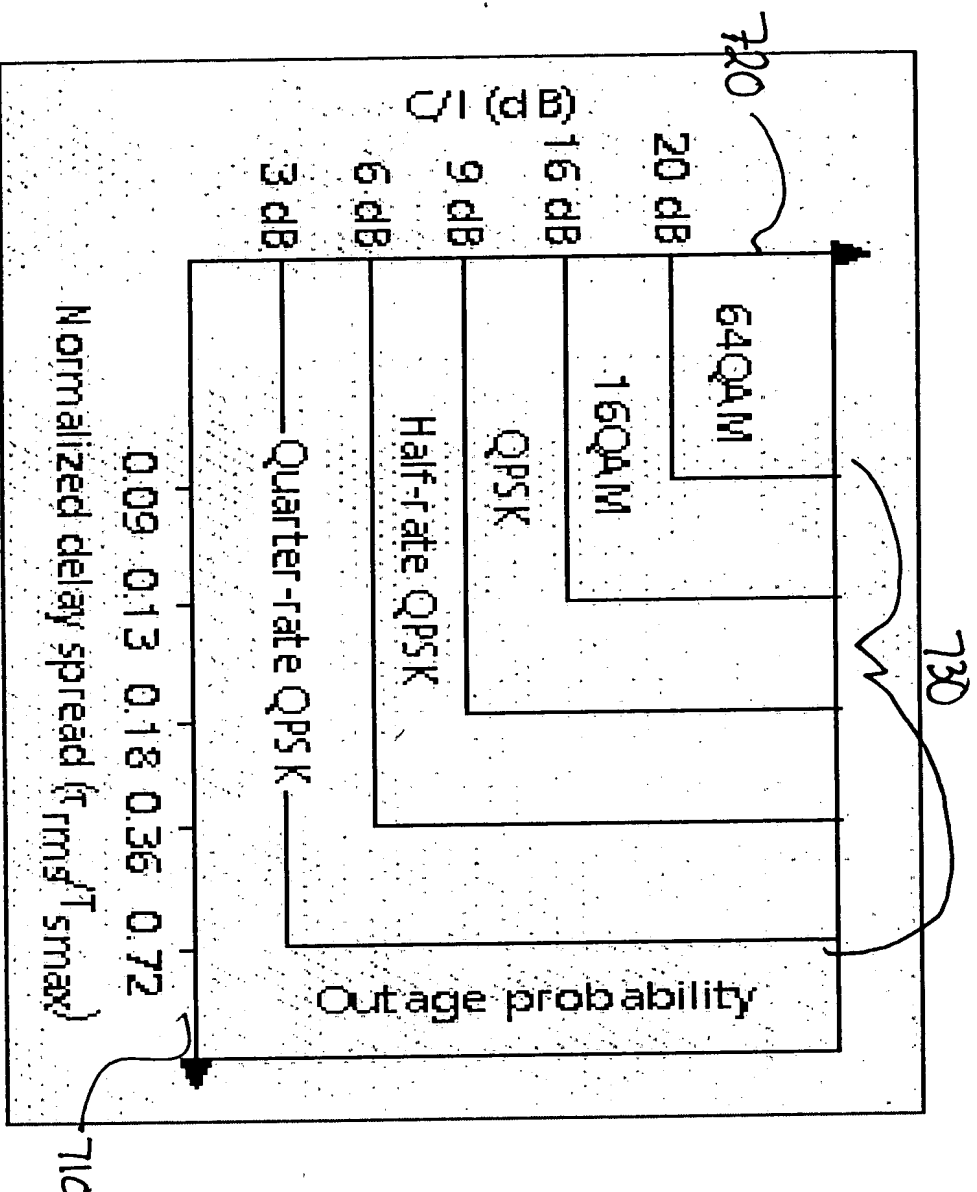
# Optimal Link Interference-Robustness Advantage Adaptive Modulation & Adaptive Symbol Rate



09620826 072100

10

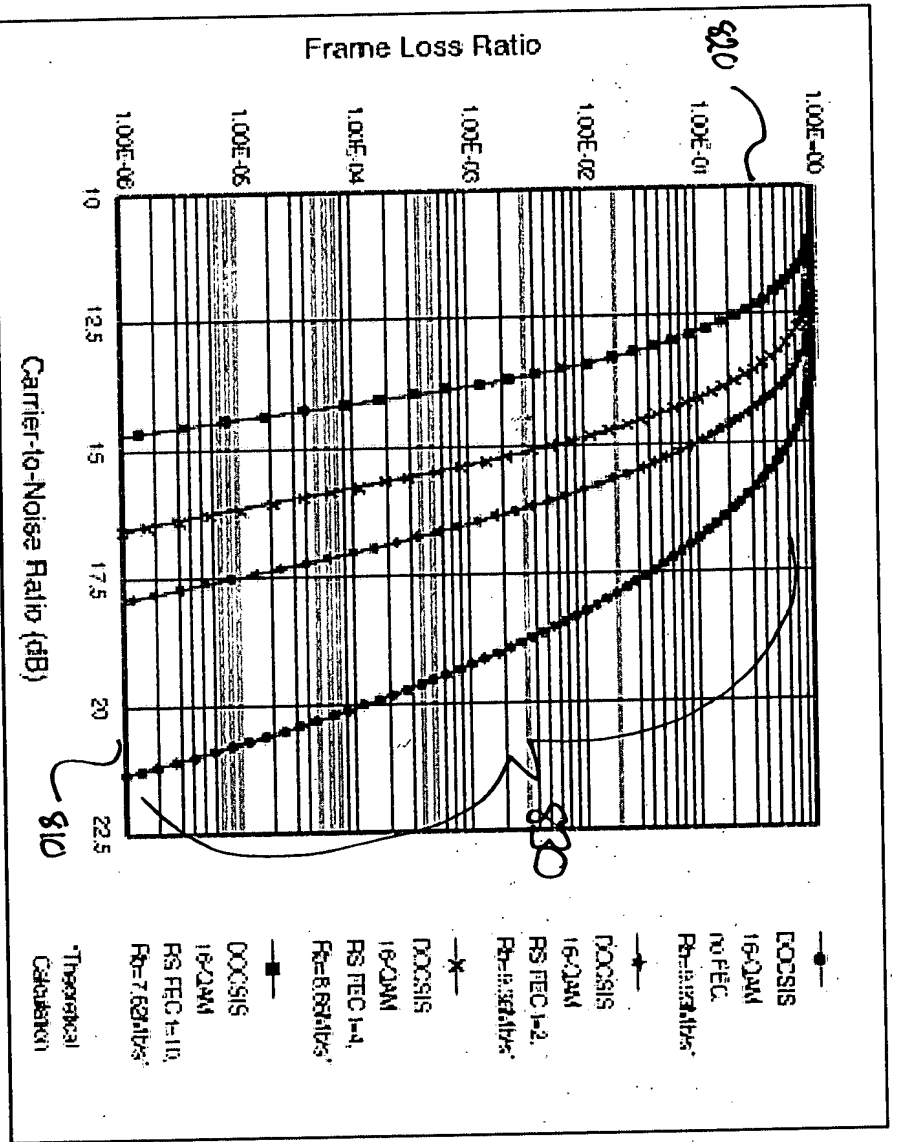
# Optimal Link Multipath-Robustness Advantage Adaptive Modulation & Adaptive Symbol Rate



09620826-072100

800

# Optimal Link Error-Robustness Advantage Adaptive FEC

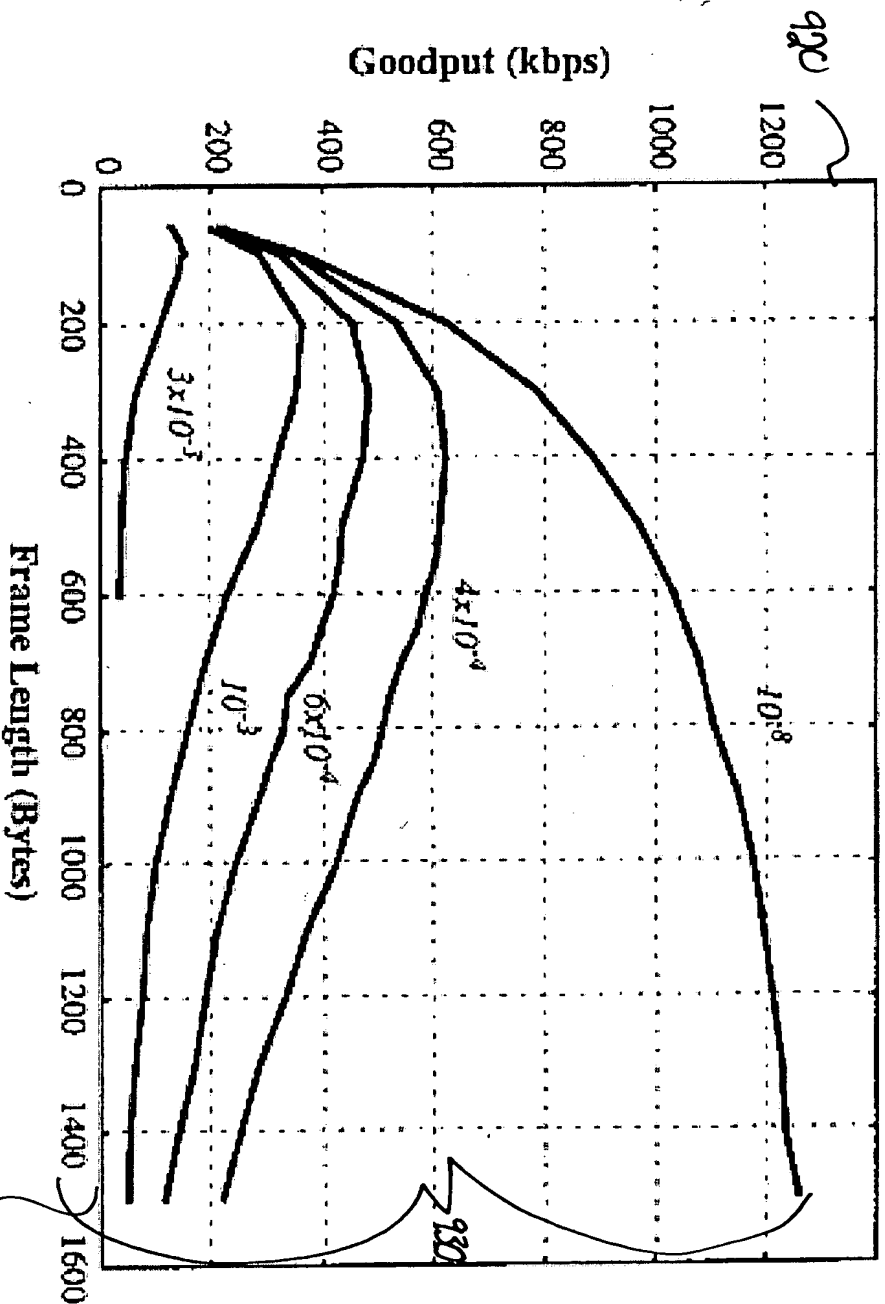


09620825.072100



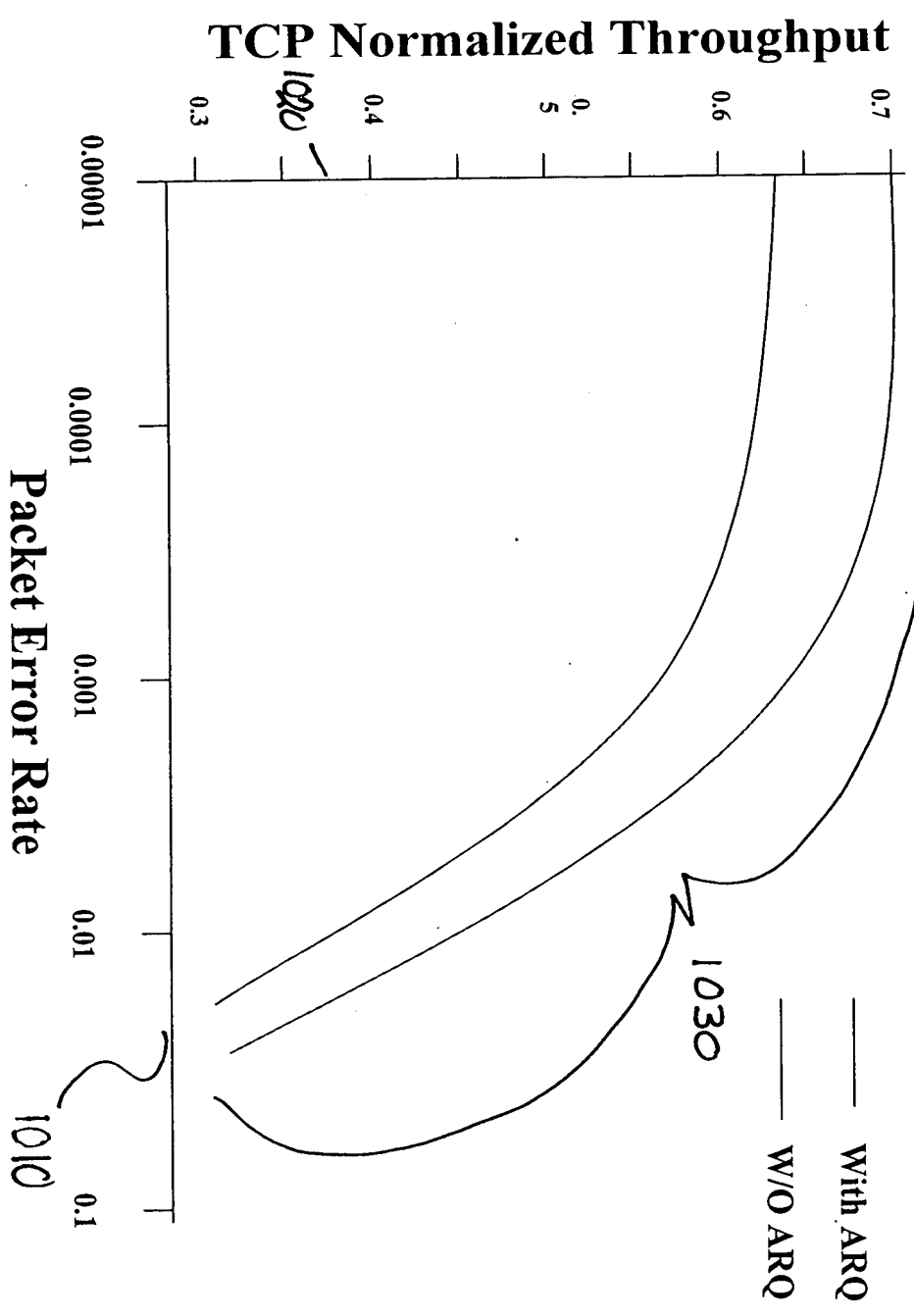
900

# Optimalink Error-Robustness Advantage Adaptive Frame Length (PDU)



1000

# Optimal Link Error-Robustness Advantage Adaptive ARQ

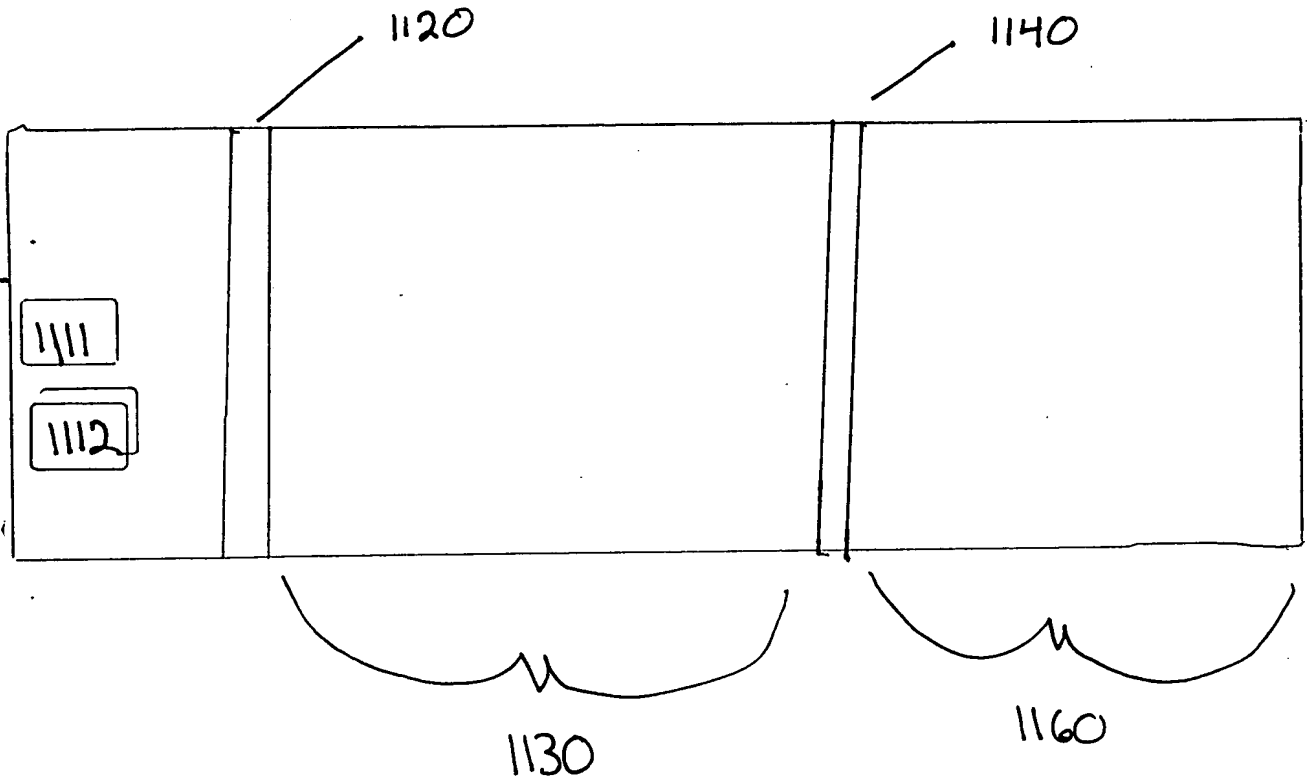


09620826, 072100

1100

1100

00720-92802960



1200

1210

The base station controller 120 and the customer premises equipment 130 are ready to begin a TDMA frame.

1211

The base station controller 120 and the customer premises equipment 130 conduct communication using a TDMA frame.

1212

The base station controller 120 determines the characteristics of the communication link with the customer premises equipment 130 in response to performance of the communication during the previous TDMA frame.

1213

The base station controller 120 determines exact values for the physical parameters and MAC parameters in response to characteristics of the communication link.

1214

The base station controller 120 determines new values for the physical parameters and MAC parameters in response to the results of the previous step and the performance of the equation 140.

001240" 92802960